

# Molecular Immunology

**LIST OF CONTENTS AND  
AUTHOR INDEX  
FOR VOLUME 26, 1989**



**Pergamon Press**

Oxford · New York · Beijing · Frankfurt · São Paulo · Sydney  
Tokyo · Toronto

## Molecular Immunology

### Board of Regional Editors

Prof. KEITH J. DORRINGTON (Chairman of the Board), *Wellcome Biotechnology Ltd, Langley Court, Beckenham, Kent BR3 3BS, U.K.*

Prof. MICHEL FOUGEREAU, *Centre d'Immunologie de Marseille-Luminy, Case 906, 13288 Marseille Cedex 9, France.*

Dr JANOS GERGELY, *Department of Immunology, L. Eötvös University, Javorka S.u. 14, Göd 2131, Hungary.*

Dr HENRY METZGER, *Building 10, Room 9N240, National Institutes of Health, Bethesda, MD 20205, U.S.A.*

Dr ROALD S. NEZLIN, *Department of Chemical Immunology, The Weizmann Institute of Sciences, Rehovot 76100, Israel.*

Dr TOMIO TADA, *Department of Immunology, Faculty of Medicine, University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo, Japan.*

### Founding Editor

Prof. DAN H. CAMPBELL

### Advisory Editors

G. I. ABELEV  
*Moscow, U.S.S.R.*  
JAY A. BERZOFKY  
*Bethesda, Maryland*  
DAVID H. BING  
*Boston, Massachusetts*  
GUY BORDENAVE  
*Paris, France*  
DENNIS R. BURTON  
*Sheffield, U.K.*  
WILLIAM CLEM  
*Jackson, Mississippi*  
JOHN E. COLIGAN  
*Bethesda, Maryland*  
MAURICE COLOMBE  
*Grenoble, France*  
GIAMPIETRO CORRADIN  
*Lausanne, Switzerland*  
SUSAN E. CULLEN  
*St. Louis, Missouri*  
JOSEPH M. DAVIE  
*Skokie, Illinois*  
M. P. DIERICH  
*Innsbruck, Austria*  
STEVEN DOWER  
*Seattle, Washington*  
S. ELSAYED  
*Bergen, Norway*  
PETER L. EY  
*Adelaide, Australia*  
DOUGLAS FEARON  
*Baltimore, Maryland*  
R. FRADE  
*Paris, France*

FRANTISEK FRANEK  
*Praha, Czechoslovakia*  
WOLF H. FRIDMAN  
*Paris, France*  
ARNOLD FROESE  
*Winnipeg, Manitoba*  
SEN-ITIROH HAKOMORI  
*Seattle, Washington*  
DAVID HOLOWKA  
*Ithaca, New York*  
JOHN K. INMAN  
*Bethesda, Maryland*  
DAVID ISENMAN  
*Toronto, Canada*  
JEAN-PIERRE KINET  
*Bethesda, Maryland*  
E. KLEIN  
*Stockholm, Sweden*  
MICHEL KLEIN  
*Toronto, Canada*  
WILLIAM LEONARD  
*Bethesda, Maryland*  
JACOB LISOWSKI  
*Wroclaw, Poland*  
H. LOWENSTEIN  
*Horsholm, Denmark*  
RICHARD G. LYNCH  
*Iowa City, Iowa*  
DAVID G. MARSH  
*Baltimore, Maryland*  
SHERIE L. MORRISON  
*New York, New York*  
JIRI NOVOTNY  
*Princeton, New Jersey*

MICHAEL J. OWEN  
*London, U.K.*  
EDUARDO A. PADLAN  
*Bethesda, Maryland*  
ISRAEL PECHT  
*Rehovot, Israel*  
CLAUDE DE PREVAL  
*Toulouse, France*  
JEAN-LOUIS PREUD'HOMME  
*Poitiers, France*  
ROBERT L. RAISON  
*Gore Hill, Australia*  
WALTER F. RIESEN  
*Bern, Switzerland*  
KENNETH ROUX  
*Tallahassee, Florida*  
VERNE N. SCHUMAKER  
*Los Angeles, California*  
DAVID M. SEGAL  
*Bethesda, Maryland*  
B. DAVID STOLLAR  
*Boston, Massachusetts*  
JACQUES THEZE  
*Paris, France*  
JUSE URIEL  
*Villejuif, France*  
MARC VAN REGENMORTEL  
*Strasbourg, France*  
EDWARD W. VOSS, JR  
*Urbana, Illinois*  
HANS G. ZACHAU  
*Munich, F.R.G.*

*Publishing and Advertising Offices:* Pergamon Press plc, Headington Hill Hall, Oxford OX3 0BW, U.K., and Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523, U.S.A. Published monthly. Annual institutional subscription rate (1990) DM 1160.00. Two year institutional rate (1990/91) DM 2204.00. Personal subscription rate for those whose library subscribes at the regular rate (1990) DM 167.00. Subscription enquiries from customers in North America should be sent to: Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523, U.S.A., and for the remainder of the world to: Pergamon Press plc, Headington Hill Hall, Oxford OX3 0BW, U.K. Prices are subject to change without notice.

#### Microform Subscriptions and Back Issues

Back issues of all previously published volumes are available direct from Pergamon Press offices.

Copyright © 1989 Pergamon Press plc

It is a condition of publication that manuscripts submitted to this journal have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. However, assignment of copyright is not required from authors who work for organizations which do not permit such assignment. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproductions of similar nature, and translation. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, electrostatic, magnetic tape, mechanical, photocopying, recording or otherwise, without permission in writing from the copyright holder.

**Photocopying information for users in the U.S.A.** The Item-fee Code for this publication indicates that authorization to photocopy items for internal or personal use is granted by the copyright holder for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service provided the stated fee for copying, beyond that permitted by Section 107 or 108 of the United States Copyright Law, is paid. The appropriate remittance of \$3.00 per copy per article is paid directly to the Copyright Clearance Center Inc., 27 Congress Street, Salem, MA 01970.

**Permission for other use.** The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific written permission must be obtained from the publisher for such copying.

*The Item-Fee Code for this publication is: 0161-5890/89 \$3.00 + 0.00*

™ The paper used in this publication meets the minimum requirements of American National Standard for Information Sciences—Permanence of Paper for Printed Library Materials, ANSI Z39.48-1984.

## CONTENTS OF VOLUME 26

## JANUARY

- G. F. Springer
- J. A. Lenstra, J. G. Kusters, G. Koch and B. A. M. van der Zeijst
- C. Favre, J. Wijdenes, H. Cabrillat, O. Djossou, J. Banchereau and J. E. de Vries
- J. Rousseaux, R. Rousseaux-Prevost and H. Bazin
- G. Wildner, E. H. Weiss, H. Szöts, G. Riethmüller and D. J. Schendel
- G. I. Abelev and E. R. Karamova
- G. I. Abelev, E. R. Karamova, A. K. Yazova and A. I. Gushev
- A. R. Neurath, N. Strick and M. Girard
- U. Bruderer, M. P. Stenzel-Poore, H. P. Bächinger, J. H. Fellman and M. B. Rittenberg
- B. D. Stollar, T. McInerney, T. Gavron, N. M. Wassef, G. M. Swartz, Jr and C. R. Alving
- W. M. M. Schaaper, H. Lankhof, W. C. Puijk and R. H. Melen
- T. Yoshimura, E. A. Robinson, E. Appella, K. Matsushima, S. D. Showalter, A. Skeel and E. J. Leonard
- R. Presentini, F. Perin, G. Ancilli, D. Nucci, A. Bartoloni, R. Rappuoli and G. Antoni
- S. K. Sood, C. T. McCusker and D. P. Singal
- 1 Tn epitope (*N*-acetyl-D-galactosamine-*O*-serine/threonine) density in primary breast carcinoma: a functional predictor of aggressiveness
- 7 Antigenicity of the peplomer protein of infectious bronchitis virus
- 17 Epitope mapping of recombinant human gamma interferon using monoclonal antibodies
- 27 Isolation and characterization of a  $V_H$  domain fragment from monoclonal rat IgG of IgG1 and IgG2a subclasses
- 33 The use of fusion proteins to study HLA-B27-specific allorecognition
- 41 Performance of multistep immunochemical reactions by counterflow isotachopheresis on nitrocellulose membranes—I. Immunoblotting
- 49 Performance of multistep immunochemical reactions by counterflow isotachopheresis on nitrocellulose membranes—II. Epitope analysis of monoclonal antibodies
- 53 Hepatitis B virus surface antigen (HBsAg) as carrier for synthetic peptides having an attached hydrophobic tail
- 63 Antibody combining site heterogeneity within the response to phosphocholine-keyhole limpet hemocyanin
- 73 Cross-reactions of nucleic acids with monoclonal antibodies to phosphatidylinositol phosphate and cholesterol
- 81 Manipulation of antipeptide immune response by varying the coupling of the peptide with the carrier protein
- 87 Three forms of monocyte-derived neutrophil chemotactic factor (MDNCF) distinguished by different lengths of the amino-terminal sequence
- Short Communications*
- 95 Studies of the antigenic structure of two cross-reacting proteins, pertussis and cholera toxins, using synthetic peptides
- 101 Cloning of a short HLA-DQ $\beta$  locus-specific cDNA probe: typing for DQw specificities

## FEBRUARY

- U. Blank, M. Daéron, A. Galinha, V. Malard, W. H. Fridman and C. Sautès
- S. Pedoussaut, A. Delmas, G. Milhaud, P. Rivaille and A. Gruaz-Guyon
- 107 Identification of the Fc $\gamma$ RII-related component of murine IgG-BF
- 115 Oral immunization with a free peptide from cholera toxin: local protection and IgA production

- B. Payelle-Brogard, T. Ternynck,  
B. Guilbert and S. Avrameas
- W. C. Olson, T. M. Spitznagel  
and M. L. Yarmush
- J. A. Ledbetter, N. A. Norris,  
A. Grossmann, L. S. Grosmaire,  
C. H. June, F. M. Uckun,  
W. L. Cosand and P. S. Rabinovitch
- A. C. Davis, C. Collins  
and M. J. Shulman
- I. Štefanová, I. Hilgert, H. Křištofová,  
R. Brown, M. G. Low and V. Hořejši
- H.-P. Heinz, K. Rubin, A.-B. Laurell  
and M. Loos
- W. Henkes and K. Reske
- G. S. Banting, B. Pym,  
S. M. Darling and P. N. Goodfellow
- T. Matsuda, E. A. Kabat  
and A. Suroliá
- H. Okamoto, S. Omi, Y. Wang,  
Y. Itoh, F. Tsuda, T. Tanaka,  
Y. Akahane, Y. Miyakawa  
and M. Mayumi
- 121 Anti-tubulin antibodies in rabbits before and after immunization with pig tubulin
- 129 Dissociation kinetics of antigen-antibody interactions: studies on a panel of anti-albumin monoclonal antibodies
- 137 Enhanced transmembrane signalling activity of monoclonal antibody heteroconjugates suggests molecular interactions between receptors on the T cell surface
- 147 Differential glycosylation of polymeric and monomeric IgM
- 153 Characterization of a broadly expressed human leucocyte surface antigen MEM-43 anchored in membrane through phosphatidylinositol
- 163 Common epitopes in C1q and collagen type II
- 171 Translation in *Xenopus laevis* oocytes of hybrid selected LEW rat RT1.B $\alpha$ - and  $\beta$ -chain transcripts results in serologically discrete class II polypeptide chain complexes
- 181 The MIC2 gene product: epitope mapping and structural prediction analysis define an integral membrane protein
- 189 Carbohydrate binding specificity of the basic lectin from winged bean (*Psophocarpus tetragonolobus*)
- 197 The loss of subtypic determinants in alleles, *d/y* or *w/r*, on hepatitis B surface antigen
- K. J. Dorrington
- A. B. Edmundson, K. R. Ely, X.-m. He  
and J. N. Herron
- M. Suter, J. E. Butler and  
J. H. Peterman
- M. M. Mazza and L. A. Retegui
- M. Mayumi, T. Kawabe, H. Nishioka,  
M. Tanaka, K.-M. Kim, T. Heike,  
J. Yodoi and H. Mikawa
- T. R. Thieme and C. R. Wagner
- C. Schlesinger, J. McEntire,  
J. Wallman, J. L. Skosey, W. C. Hanly  
and M. Teodorescu
- G. J. van Dam, A. F. M. Verheul,  
G. J. W. J. Zigterman, M. J. de Reuver  
and H. Snippe
- J. Biewenga, P. S. Hiemstra,  
I. Steneker and M. R. Daha
- 207 Cocrystallization of an immunoglobulin light chain dimer with bis(dinitrophenyl)lysine: tandem binding of two ligands, one with and one without accompanying conformational changes in the protein
- 221 The immunochemistry of sandwich ELISAs—III. The stoichiometry and efficacy of the protein-avidin-biotin capture (PABC) system
- 231 The antigenic topography of human growth hormone
- 241 Interferon and (2'-5')oligoadenylate enhance the expression of low affinity receptors for IgE (Fc $\epsilon$ R $_2$ /CD23) on the human monoblast cell line U937
- 249 The molecular weight of the endothelial cell IL-1 receptor is 78,000
- 255 Covalent binding to  $\alpha$ -macroglobulins of a protein with free SH groups produced by activated B cells: blocking by D-penicillamine and gold compounds
- 269 Estimation of the avidity of antibodies in polyclonal antisera against *Streptococcus pneumoniae* type 3 by inhibition ELISA
- 275 Binding of human IgA1 and IgA1 fragments to jacalin

## MARCH

## i Editorial Notice

- S.-T. Ju, P. Strack and M. E. Dorf 283 Production and immunoselection of IgM-IgA hybridomas: preparing immunoglobulins with dual binding specificity
- J. L. Cousin, P. del Vesco, M. Samson, D. Brandenburg and M. F. Hlmann 293 Binding of antigen to Ia molecules on intact antigen presenting cells demonstrated by photoaffinity labeling
- R. Jemmerson and R. Blankenfeld 301 Affinity consideration in the design of synthetic vaccines intended to elicit antibodies
- H. Sato, T. Nakamura and J. Koyama 309 Relative abilities of two Fc $\gamma$  receptors on guinea-pig macrophages to operate in the phagocytosis of soluble immune complexes
- T. Blankenstein, G. A. Rathbun, P. W. Tucker and U. Krawinkel 319 Recombination between V $_H$  pseudogenes
- S.-H. Kim, D. F. Carney, J. C. Papadimitriou and M. L. Shin 323 Effect of osmotic protection on nucleated cell killing by C5b-9: cell death is not affected by the prevention of cell swelling
- G. R. Antoun, B. M. Longenecker and T. F. Zipf 333 Comparison of the 40 kDa hematopoietic cell antigens bound by monoclonal antibodies IV.3, 41H.16 and KB61
- T. M. Seregina, M. I. Mekshenkov, R. L. Turetskaya and S. A. Nedospasov 339 An autocrine growth factor constitutively produced by a human lymphoblastoid B-cell line is serologically related to lymphotoxin (TNF- $\beta$ )

*Preliminary Communication**International Symposium*  
i Pollinosis in the Mediterranean area

## APRIL

- T. V. Tittle 343 Immunochemical analyses of C57BL/6J monoclonal anti- $\alpha$  (1  $\rightarrow$  3) dextran antibodies
- G. E. Woloschak, C. J. Krco and M. Rodriguez 351 Anti- $\mu$  treatment suppresses immunoglobulin light-chain gene expression and Peyer's patch development
- A. B. Hartman, C. P. Mallett, J. Srinivasappa, B. S. Prabhakar, A. L. Notkins and S. J. Smith-Gill 359 Organ reactive autoantibodies from non-immunized adult BALB/c mice are polyreactive and express non-biased V $_H$  gene usage
- R. I. Near and E. Haber 371 Characterization of the heavy and light chain immunoglobulin variable region genes used in a set of anti-digoxin antibodies
- B. Nilsson, K. Nilsson Ek Dahl, K.-E. Svensson, A. Bjelle and U. R. Nilsson 383 Distinctive expression of neoantigenic C3(D) epitopes on bound C3 following activation and binding to different target surfaces in normal and pathological human sera
- M. Teng, S. Hedayati, A. A. Alexander, R. Barkin, R. S. Basch and J. N. Buxbaum 391 A Thy-1 negative lymphoma cell variant defective in the formation of glycosyl-phosphatidylinositol membrane protein anchors
- M. R. Walker, J. M. Woof, M. Brüggemann, R. Jefferis and D. R. Burton 403 Interaction of human IgG chimeric antibodies with the human FcRI and FcRII receptors: requirements for antibody-mediated host cell-target cell interaction
- A. Machida, H. Ohnuma, E. Takai, F. Tsuda, T. Tanaka, M. Naito, E. Munkata, Y. Miyakawa and M. Mayumi 413 Antigenic sites on the arginine-rich carboxyl-terminal domain of the capsid protein of hepatitis B virus distinct from hepatitis B core or e antigen
- K. Obaru, T. Hattori, Y. Yamamura, K. Takatsuki, H. Nomiyama, S. Maeda and K. Shimada 423 A cDNA clone inducible in human tonsillar lymphocytes by a tumor promoter codes for a novel protein of the  $\beta$ -thromboglobulin superfamily

*Letter to the Editor*

A. Arnaiz-Villena, J. L. Vicario,  
J. Martinez-Laso, A. Corell,  
J. R. Regueiro, Javier Gomez-Reino  
and Juan Gomez-Reino

A. Rinfret, C. Horne,  
K. J. Dorrington and M. Klein

#### *Preliminary Communications*

- 427 An Eco RI polymorphic site in the human complement C4 gene distinguishes juvenile rheumatoid arthritis (JRA) susceptibility-bearing haplotypes

- 431 Cloning, sequencing and expression of the rearranged MOPC 315 V<sub>H</sub> gene segment

#### *Announcement*

- i The Catholic University of America Center for Advanced Training in Cell and Molecular Biology. 1989 Summer Course Schedule and Lake Tahoe Symposium

### MAY

#### *Review*

- R. Aston, W. B. Cowden and G. L. Ada 435 Antibody-mediated enhancement of hormone activity

#### *Papers*

- R. A. Hubbard, M. T. Speidel,  
J. J. Marchalonis and R. E. Cone 447 A monoclonal antigen-binding T cell immunoprotein: antigenic relatedness to T cell receptor  $\beta$  chain FR1 V and J peptide segments: physicochemical distinctiveness from classical immunoglobulins and T cell receptor heterodimers
- C. J. Lobb and J. R. Hayman 457 Activation of complement by different immunoglobulin heavy chain isotypes of the channel catfish (*Ictalurus punctatus*)
- K. Schwarz, N. Brückel,  
H. Schwaibold, S. von Kleist  
and F. Grunert 467 Non-specific cross-reacting antigen: characterization of specific and cross-reacting epitopes
- V. J. Hemmens, B. A. Baldo,  
P. A. Underwood, E. Holen  
and S. Elsayed 477 Common antigenic and allergenic determinants on codfish proteins detected with mouse monoclonal IgG and human IgE antibodies
- N. Haeflner-Cavaillon, M. Caroff  
and J.-M. Cavaillon 485 Interleukin-1 induction by lipopolysaccharides: structural requirements of the 3-deoxy-D-manno-2-octulosonic acid (KDO)
- J. V. Peppard, S. M. Hobbs  
and L. E. Jackson 495 Role of carbohydrate in binding of IgG to the Fc receptor of neonatal rat enterocytes

#### *Announcement*

- 501 International Symposium on Common Variable Immunodeficiency: Pathogenesis, Diagnosis and Treatment

### JUNE

#### *Review*

- 503 The antigenic structure of a scorpion toxin

#### *Papers*

- C. Granier, J. Novotny,  
J.-C. Fontecilla-Camps, P. Fourquet,  
M. El Ayeb and E. Bahraoui 515 A novel interferon- $\gamma$  regulated human melanoma-associated antigen, gp33-38, defined by monoclonal antibody Me14-D12.  
II. Molecular cloning of a genomic probe
- M. Audette, S. Carrel, D. Hayoz,  
L. Giuffrè, J.-P. Mach and L. C. Kühn 523 Interaction of meningococcal group B monoclonal antibody and its Fab fragment with  $\alpha$ 2-8-linked sialic acid polymers: requirement of a long oligosaccharide segment for binding
- J. Häyrynen, D. Bitter-Suermann  
and J. Finne



- M.-A. Petit, S. Dubanchet and F. Capel 531 A monoclonal antibody specific for the hepatocyte receptor binding site on hepatitis B virus
- P.-A. Fernandez, T. Ternynck and S. Avrameas 539 Immunochemical studies of a murine polyreactive IgG2b autoantibody with rheumatoid factor activity
- H. Masmoudi, F. Bonhomme and P.-A. Cazenave 551 "New" allotypes of the murine  $\gamma 1$  immunoglobulins
- R. E. Esch and D. G. Klapper 557 Isolation and characterization of a major cross-reactive grass Group I allergenic determinant
- A. H. Grier and C.-W. Vogel 563 The oligosaccharide chains of cobra venom factor are required for complement activation
- D. L. Albrecht and R. J. Noelle 575 Membrane immunoglobulin-cytoskeletal interactions —II. Biochemical analysis of cytoskeletally associated IgM
- M. S. O'Dorisio and L. B. Campolito 583 Comparison of vasoactive intestinal peptide-mediated protein phosphorylation in human lymphoblasts and colonic epithelial cells
- Announcement*
- 591 VIII International Colloquy of Immunology and Allergology

## JULY

- J. G. Monroe, K. J. Blank, C. S. Owen and N. Sykes 593 Signalling through sIgA on a novel murine B lymphoma
- G. Cremaschi, A. M. Genaro and L. Sterin-Borda 601 Colchicine blocks  $\beta$  adrenoceptor and class I antigen-specific interactions
- C. L. Bristow and J. J. Marchalonis 611 Solid-phase antigen binding by purified immunoproteins from antigen-specific monoclonal T cell hybridomas
- G. Tribbick, A. B. Edmundson, T. J. Mason and H. M. Geysen 625 Similar binding properties of peptide ligands for a human immunoglobulin and its light chain dimers
- S. C. Lord, G. L. McMullen, S. Marzuki and B. F. Cheetham 637 Functional domains of human interferon gamma probed with anti-peptide antibodies
- R. Teshima, K. Suzuki, H. Ikebuchi and T. Terao 641 Enhancement of the phosphorylation of membrane bound myosin light chain by antigen stimulation in rat basophilic leukemia cells
- S. Umland, R. Lee, M. Howard and C. Martens 649 Expression of lymphokine genes in splenic lymphocytes of autoimmune mice
- V. Bažil, M. Baudyš, I. Hilgert, I. Štefanová, M. G. Low, J. Zbrožek and V. Hořejší 657 Structural relationship between the soluble and membrane-bound forms of human monocyte surface glycoprotein CD14
- N. Rubio and A. Cuesta 663 Lack of cross-reaction between myelin basic proteins and putative demyelinating virus envelope proteins
- M. Matsushita and H. Okada 669 Two forms of guinea pig factor B of the alternative complement pathway with different molecular weights
- S. Bordin and R. C. Page 677 Detection of a high-affinity binding site for the globular head regions of the C1q complement protein on a human diploid fibroblast subtype

## AUGUST

- P. Machy and A. Truneh 687 Differential half-life of major histocompatibility complex encoded class I molecules in T and B lymphoblasts

- M. Matsumoto, K. Nagaki, T. Seya and H. Kitamura 697 Acceleration of site-to-site transfer of  $C\bar{I}$  by a monoclonal antibody to  $C\bar{I}s$
- D. P. Singal, D. Green, M. D'Souza and B. Reid 705 Polymorphism of three HLA-DR7 bearing major histocompatibility complex extended haplotypes
- M. A. Smal, B. A. Baldo and J. W. Redmond 711 Production of antibodies to platelet activating factor
- G. Rechavi 721 Hypothesis: the removal of  $V_H$  gene downstream sequences is required for its expression in mature B cells
- C. Vincent, J. M. Ramackers, N. Bonnefoy and J. P. Revillard 727 Charge heterogeneity of  $\beta 2$ -microglobulin in lymphoid cells
- A. Larsson 735 Divalent binding of monoclonal antibody to a cell surface antigen. Modelling of equilibrium data
- M. Bramucci, D. Roll, R. Cook and E. Durban 741 Identification of consensus epitope structures expressed in recombinant DNA libraries
- M. Monestier, T. M. Fasy and L. Böhm 749 Monoclonal anti-histone H1 autoantibodies from MRL *lpr/lpr* mice
- K. P. Kane, P. Champoux and M. F. Mescher 759 Solid-phase binding of class I and II MHC proteins: immunoassay and T cell recognition
- D. V. Gold and D. Shochat 769 Studies on the structure of the organ-specific determinant of human colonic mucin
- M. A. Dombrink-Kurtzman, M. J. Lacy and E. W. Voss, Jr 779 Structural properties of an anti-fluorescein monoclonal IgM cryoglobulin
- L. Morelli, J. Leoni, C. A. Fossati and R. A. Margni 789 *Preliminary Communications*  
Symmetric and asymmetric IgG antibodies are synthesized by the same cellular clone
- D. Hudig, N. J. Allison, C.-M. Kam and J. C. Powers 793 Selective isocoumarin serine protease inhibitors block RNK-16 lymphocyte granule-mediated cytotoxicity

## SEPTEMBER

- G. N. Milligan and H. Braley-Mullen 799 Production and characterization of monoclonal antibodies specific for types 6 and 19 pneumococcal capsular polysaccharides
- T. V. Tittle, McK. Brown and M. B. Rittenberg 809 Characterization of  $\lambda$  class antibodies from the BALB/c memory response to a [glucosyl- $\alpha(1 \rightarrow 3)$  glucosyl]-protein conjugate
- B. Hall and C. Milcarek 819 Sequence and polyadenylation site determination of the murine immunoglobulin  $\gamma 2a$  membrane 3' untranslated region
- G. Mazza, C. Nahmias, A. D. Strosberg and M. Fougereau 827 Idiotypic cross-reactivity of anti-GAT and anti-alprenolol antibodies: an approach to the structural correlates of the pGAT idiotypic specificity
- N.-H. Choi, T. Mazda and M. Tomita 835 A serum protein SP40,40 modulates the formation of membrane attack complex of complement on erythrocytes
- D. B. A. Symons, C. A. Clarkson and D. Beale 841 Structure of bovine immunoglobulin constant region heavy chain gamma 1 and gamma 2 genes
- J. M. Torres, J. Laborda, J. Naval, N. Darracq, M. Calvo, Z. Mishal and J. Uriel 851 Expression of alpha-fetoprotein receptors by human T-lymphocytes during blastic transformation



- F. Mertens, J. Urbain and M. Slaoui 859 *In vivo* induction of A/J anti-ARS responses with different ranges of affinities: correlation between affinity and CRI<sub>A</sub> idiotype dominance
- T. R. Hebbes, C. H. Turner, A. W. Thorne and C. Crane-Robinson 865 A "minimal epitope" anti-protein antibody that recognises a single modified amino acid
- D. A. McCarthy and A. F. Drake 875 Spectroscopic studies on IgG aggregate formation
- J. E. K. Hildreth, V. Holt, J. T. August and M. D. Pescovitz 883 Monoclonal antibodies against porcine LFA-1: species cross-reactivity and functional effects of  $\beta$ -subunit-specific antibodies
- U. Steffens, W. Bessler and S. Hauschildt 897 B cell activation by synthetic lipopeptide analogues of bacterial lipoprotein bypassing phosphatidylinositol metabolism and protein kinase C translocation
- Y. Yamashita, Y. Imai and T. Osawa 905 Poly[N-acetyl-lactosamine]-type sugar chains in CD45 antigens of abnormal T cells of *lpr* mice are different from those of normal T cells and B cells
- M. E. Zelman and C. F. Lange 915 Isolation and partial characterization of antigens from basement membranes and streptococcal cell membrane (SCM) employing anti-SCM monoclonal antibody

## OCTOBER

- R. E. Taffs and S. J. Ewald 925 Concanavalin A induces a cytoskeletal association of T200 molecules in T lymphocytes
- V. S. Ganu, H. J. Müller-Eberhard and T. E. Hugli 939 Factor C3f is a spasmogenic fragment released from C3b by Factors I and H: the heptadeca-peptide C3f was synthesized and characterized
- É. Rajnavölgyi, Á. Lányi, F. Hudecz, I. Kurucz, K. Kiss, G. László, M. Szekerke and J. Gergely 949 Structural characteristics influencing the carrier function of synthetic branched polypeptides based on poly[Lys-(DL-Ala)<sub>3</sub>] backbone
- L. Shen, R. F. Graziano and M. W. Fanger 959 The functional properties of Fc $\gamma$ RI, II and III on myeloid cells: a comparative study of killing of erythrocytes and tumor cells mediated through the different Fc receptors
- E. W. Voss Jr, M. A. Dombrink-Kurtzman and D. W. Ballard 971 Inter-relationship between immunoglobulin idiotype and metatype
- S. C. Jordan, M. Toyoda, J. Prehn, J. M. Lemire, R. Sakai and J. S. Adams 979 1,25-Dihydroxyvitamin-D<sub>3</sub> regulation of interleukin-2 and interleukin-2 receptor levels and gene expression in human T cells
- S. K. Anderson, J. Stankova and J. C. Roder 985 Decreased p21 levels in anti-sense *ras* transfectants augments NK sensitivity
- P. G. Rousseau, C. P. Mallet and S. J. Smith-Gill 993 A substantial proportion of the adult BALB/c available B cell repertoire consists of multireactive B cells
- R. G. Mage, B. A. Newman, N. Harindranath, K. E. Bernstein, R. S. Becker and K. L. Knight 1007 *Preliminary Communication*  
Evolutionary conservation of splice sites in sterile C $\mu$  transcripts and of immunoglobulin heavy chain (IgH) enhancer region sequences

1011 *Book Reviews*

## NOVEMBER

- C. Bloy, D. Blanchard, P. Hermand, M. Kordowicz, H. H. Sonneborn and J. P. Cartron 1013 Properties of the blood group LW glycoprotein and preliminary comparison with Rh proteins

Z. Qin, G. Richter, T. Diamantstein and T. Blankenstein	1021	Structure and evolution of mouse interleukin 6 gene
N. Lupi, A. Bourgois, A. Bernadac, S. Laboucarié and J.-M. Pagès	1027	Immunological analysis of porin polymorphism in <i>Escherichia coli</i> B and K-12
J. A. Swack, R. M. R. Gangemi, C. E. Rudd, C. Morimoto, S. F. Schlossman and P. L. Romain	1037	Structural characterization of CD6: properties of two distinct epitopes involved in T cell activation
W. Mourad, D. Bernier, M. Jobin and J. Hébert	1051	Mapping of Lol p I allergenic epitopes by using murine monoclonal antibodies
D. Yuan and T. Dang	1059	Regulation of $\mu_M$ vs $\mu_S$ mRNA expression in an inducible B cell line
J. F. Collawn, H. Bhayani and Y. Paterson	1069	An analysis of the physical properties of peptides that influence the pigeon cytochrome c specific T lymphocyte response
C. Pelassy, A. Dallanegra, C. Aussel and M. Fehlmann	1081	Inhibition of phosphatidylserine synthesis induced by triggering CD2 or the CD3-TCR complex in a human T cell line. Relationships with G proteins and receptors modulation

## DECEMBER

M. Manciualea, L. Pricop, A. Sulica and R. B. Herberman	1087	Inhibition of human natural killer cell activity by polyclonal IgM
T. Burke, K. Pollok, W. Cushley and E. C. Snow	1095	Phosphorylation of class I but not class II MHC molecules by membrane-localized protein kinase C
M. Letellier, M. Sarfati and G. Delespesse	1105	Mechanisms of formation of IgE-binding factors (soluble CD23)—I. Fc $\epsilon$ R II bearing B cells generate IgE-binding factors of different molecular weights
R. J. Rothman, B. Perussia, D. Herlyn and L. Warren	1113	Antibody-dependent cytotoxicity mediated by natural killer cells is enhanced by castanospermine-induced alterations of IgG glycosylation
R. Kontermann and E. W. Rauterberg	1125	N-Deglycosylation of human complement component C9 reduces its hemolytic activity
W. Vogt, B. Damerau, I. von Zabern, R. Nolte and D. Brunahl	1133	Non-enzymic activation of the fifth component of human complement, by oxygen radicals. Some properties of the activation product, C5b-like C5
L. J. Wysocki and M. Gefer	1143	The molecular basis of a V $_H$ gene polymorphism that determines the expression of a major idiotype
L. Patthy	1151	Homology of cytotoxic protein of eosinophilic leukocytes with IgE receptor Fc $\epsilon$ RII: implications for its structure and function
J. E. K. Hildreth and J. A. Hyman	1155	Production and characterization of monoclonal anti-CD18 anti-idiotype antibodies
M. Gex-Fabry, F. Marchetti, K. Nakata and C. DeLisi	1169	Identifying weak signals in the presence of noise: a new method of locating potential ligand contact residues in immunoglobulin-related molecules
L. Chouchane, J.-L. Guillaume, D. Goossens, Ph. Rouger and A. D. Strosberg	1179	Amino acid sequence of the variable domains of a human anti-Rh(c) antibody: presence of an unusually long CDR3 in the $\lambda$ chain
F. Lozano, J. Alberola-Ila, L. Places and J. Vives	1187	<i>Preliminary Communication</i> Heterogeneity in the electrophoretic mobility of CD5 molecules after phorbol ester stimulation

